

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: Terry Burge <terrybu@netman.ENS.TEK.COM>
Subject: \$12 yearly fee is OK with me
Message-ID: <9603070401.AA01485@netman.ENS.TEK.COM>

Gang,

I find it totally unreasonable to try and compare any of the rec.radio.* groups to this list. Only rec.antiques.radio+phono comes close to providing the comradship and helpful advice. Not as much but still it is the best on the news reader I have seen. And it just doesn't provide as much as this list. Not to mention the fact that Hank and a few others are the reason for that. And Hank is on this service plus many other people whose knowledge and attitudes make this group the most enjoyable part of using my computer.

If Mr.Porch and his helpers want to use any extra money they collect for buying boatanchors or going on vacation or buying bubble gum then more power to them. Without them providing this service life wouldn't be nearly as enjoyable and we would have to find other verbal or written outlets for our boatanchor interest. I don't see anyone else offering to use there time for free to provide an alternative that would come close, moderated list or whatever.

The only thing I worry about is the hesitation newcomers might have to joining the paid list.

Terry
KI7M

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: michael.moore@24stex.com
Subject: \$12.00
Message-ID: <9603070829.0BXM000@24stex.com>

If somebody wants to start a usenet forum that might be a good idea. It will get the whinners off of here and it will stop people like myself who do *not* have internet capabilities from participating(that will make for a much smaller list). I have e-mail only abilities. I am glad that Jack takes as much time as he does running BA because he understands the problems associated with all the different systems. Awhile back my alot of my mail was bouncing because of system problems. Jack was patient and did not unsubscribe me because of all the bounces. Unlike the list-owner of VSS.

Mike..

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Joe Roberts <72411.533@compuserve.com>
Subject: 4 Sale/WTB
Message-ID: <960308044731_72411.533_HHB30-1@CompuServe.COM>

For Sale:

Halli R-48A Speaker (matches SX-117, SX-122, SX-140, etc) good condx, needs a new speaker wire \$25

Westinghouse WL-460 Power Tubes- have two used specimens \$20 both U-test

Johnson Directional Coupler Indicator #250-38 (meter unit only, no directional coupler unit) good condx \$9

Tek 515A manual professional photocopy \$5 + \$3 priority mail

Add a few bucks for postage on above.

WANTED: RF probe for HP 410C
Drake C Line, R4C, R4C with Sherwood mods

Joe N4WQC
72411.533@compuserve.com
Austin, TX

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: w7ni@teleport.com (Stan Griffiths)
Subject: 6DJ8 vs 6ES8
Message-ID: <199603070832.AAA02170@desiree.teleport.com>

>Hi Stan,

>

>Got your tube list today, thanks. As I perused the list I ran across the
>usual 6DJ8's and it occurred to me to ask the question? Do you suppose that
>the 6ES8 would work in some of the circuits? The tube is listed as a direct
>replacement for the 6DJ8/ECC83. the only difference between the original
>6DJ8 and the other is that the other tube doesn't have an internal shield.
>Could you add a tube shield to the tube and have it work? You're the expert
>so I figured that you might know. What say you??

>

>

>KIM

>KIM

>kherron@voyager.net

>

Hi Kim,

Very interesting. I have never heard of the 6ES8 so they can't be very common. Tek never recognized it as a replacement, but that does not mean it wouldn't work sometimes are maybe all the time.

Since the 6DJ8 is a dual triode, I suspect the "internal shield" is inside the tube and shields one half of the tube from the other half. I don't think an external tube shield would accomplish the same thing. Still, it may work in some circuits or maybe all circuits. Couldn't say without trying some.

Do you know of a cheap source of 6ES8s? If so, I would be will to buy a few to experiment with.

BTW, I think a 6DJ8 is an ECC88 and not an ECC83.

Stan w7ni@teleport.com

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996

From: George Hamner <73514.1103@compuserve.com>

Subject: 6DJ8 vs 6ES8

Message-ID: <960307132359_73514.1103_EHT55-1@CompuServe.COM>

All-

I believe the 6ES8 is a variable-mu, remote-cutoff twin triode. It is a high performance, frame-grid, low noise tube with an ENR of 160!

Some years ago Ray Osterwald wrote a series in ER on the 75A-4 where he recommended the 6ES8 for a modified 1st mixer.

"Glass Audio" also had a couple of articles about the *unsuitability* of the 6ES8 for audio.

George Hamner

73514.1103@compuserve.com

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996

From: bill@texan.frco.com (William Hawkins)

Subject: Re: 6DJ8 vs 6ES8
Message-ID: <9603071924.AA17410@texan.frco.com>

Went through several boxes of manuals from Control Data the other day, and bought the few that were for boatanchor test equipment. In there were 30 issues of the Tektronix newsletter from the 60's. One described the 6DJ8 as a replacement for the 6BQ7A because it was more reliable and had a better match between the triode sections. Sounds like there's nothing wrong with using 6BQ7's if you're willing to do a little substituting.

Are the Tektronix tech notes common or rare? Should I be using a scanner to capture them, or offer some copies?

My source has lots of blue Tek manuals for 70's scopes. I'd be willing to look if someone has a need. They want \$20 for a scope manual.

Bill Hawkins

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Michael.J.Knudsen@att.com
Subject: Re: 6DJ8 vs 6ES8
Message-ID: <9603072000.AA28761@bock.ih.att.com>

I *think* the 6ES8 is used as the cascode RF amp in the later versions (Mark III) of the Racal RA-17.

There aren't many variable-mu TRIodes out there (I hope someone will prove me wrong) for building cascodes or grounded-grid VHF preamps, so it's good that the 6ES8 exists. However, I heard that they are pretty rare nowadays.

Isn't the 6DJ8 one of those combination 1st-audio-driver and audio-output jobs? I used to have a hybrid Tek wannabee scope that used them in the deflection outputs.

Variable-mu tubes are hard to use in audio work unless the signal is REALLY low, like a mag phono or tape head preamp. Nice way to get AVC tho, a feature common in jukebox amps. 73, mike k aa9rg

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: "Lahlum Ross" <ross_lahlum@msmail.wes.mot.com>
Subject: RE: 6DJ8 vs 6ES8
Message-ID: <9603080447.AA25757@kay.wes.mot.com>

The 6DJ8 is billed as a VHF Duo Triode for cascode amplifier service in my Sylvania manual. I have seen lots of them in Tek scopes, especially in the

distributed amplifiers where they do work well (probably due to Tek's conservative design - when I worked on Tek 500 series scopes years back I rarely had to replace a delay line tube - the design provided adjustable elements to trim up the square wave in calibration).

I have also noticed that high-end audio manufacturers use the 6DJ8 a lot. It does have high transconductance and low noise figures. I think Audio Research started this usage in preamps, then others followed. Initially AR used the 6DJ8 as a cathode follower just before the output jacks, and 12AX7A's in the rest of the preamp. Apparently there is some controversy about the 6DJ8 vs. more common triodes like the 12AX7A. There was an article in Glass Audio about a year ago discussing the 6DJ8's suitability for audio. (BTW, I highly recommend this mag for anyone who is interested in designing with tubes - no radio stuff, but still very good.)

Ross

>Isn't the 6DJ8 one of those combination 1st-audio-driver and audio-output
>jobs? I used to have a hybrid Tek wannabee scope that used them in the
>deflection outputs.

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: Duncan Cadd <dcadd@luc.ac.be>
Subject: Re: 75 Years Ago This Month....
Message-ID: <9603070853.AA12795@alpha.luc.ac.be>

Greetings, Anchorites, from a recently snowing Diepenbeek in N.E. Belgium!

How about 100 years ago this month . . .

Marconi arrived in the UK early in 1896. His cousin Henry pointed him in the direction of some useful contacts in London, and on 30th March 1896, an electrical engineer name of Alan Campbell-Swinton sent a letter of introduction to Mr. (later Sir) W.M. Preece, who was then experimenting with wireless telegraphy by electromagnetic induction - with very limited success - on behalf of the British Post Office. He wrote:

A.A. Campbell Swinton	66 Victoria Street
Electrical Engineer	London SW

Telegraphic Address	March 30 th 1896
"OUNAMIS.LONDON"	

Telephone No. 3156

Dear Mr. Preece,

I am taking the liberty of sending to you with this note a young Italian of the name of Marconi, who has come over to this country with the idea of getting taken up a new system of telegraphy without wires, at which he has been working. It appears to be based upon the use of Hertzian waves, and Oliver Lodge's coherer, but from what he tells me he appears to have got considerably beyond what I believe other people have done in this line.

It has occurred to me that you might possibly be kind enough to see him and hear what he has to say and I also think that what he has done will very likely be of interest to you.

Hoping that I am not troubling you too much.

Believe me,
Yours very truly

(signed) A.A.C. Swinton

Mr. Preece later arranged for Marconi's new system to be demonstrated publicly from the GPO building in St. Martin's-le-Grand in central London. The rest, as they say, is history.

73,

Duncan ON9CHU / G0UTY G-QRP 8117 dcadd@luc.ac.be

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: "Michael Hanz" <hanzm@ncr.disa.mil>
Subject: ART-13 vs ART-13B
Message-ID: <9602078262.AA826227246@ncr.disa.mil>

The "B" model was introduced to accommodate the CDA-T crystal oscillator, Andy. They had to add another Jones plug in the upper center slot to allow the channel selector switch to access a total of twenty crystal freqs, plus four LF crystals. They also added a

trimming capacitor in the 1625 multiplier section (via front panel toggle switch) so that crystals down to 1700Kc could be used. Not bad for 160M use...

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Jay Coward <jayc@hpmsd2.sj.hp.com>
Subject: RE:ART-13 vs. ART-13B
Message-ID: <9603072130.AA22513@hpmsd2.sj.hp.com>

Andy,

This is from memory only as my manuals are at home. The ART-13B differs in several respects. I have one that I presume was field modified. It has stemcilled M1 thru M6 on the end cover. I'm pretty sure that M1 was to add a safety interlock switch for the top cover. In addition the -13B has installed the CDA-T LF and HF crystal oscillator. This unit is in the place of the O-16 or O-17 or the Dummy Osc. unit. It required extensive modification to install. (15 pin Jones socket, wiring, an extra switch deck, etc.) This enabled the tx to have up to 20 HF channels and 4 LF channels. The HF freqs. were in pairs that could be loaded at one position of the channel switch and the use of the A/B switch. The tx can also be used in the VFO mode.

In addition, there is an additional switch on the lower front panel labeled EXTEND/NORMAL. This connected an added padding cap. to the oscillator to extend it down to around 1620 kc! (Top banders take note, see back issues of ER for details on this mod.)

Another change was a new T- * and I can't remember what it is! Maybe someone else on the list knows this one. Mine has a small data plate mounted over the original that just covers the T-47 area.

It's possible that M2 was the change from the early 8Q-1 CFI unit to the 8Q-2 unit.

That's it for now I'll try and dig specifics up if I can find a little time.!

73 Jay KE6PPF

--

HEWLETT	John Jay Coward	39201 Cherry Street	MS NK10
PACKARD	jayc@hpmsd2.sj.hp.com	Newark, California	94560
Communications Components Division		510-505-5614	Fax 510-505-5560

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: "Ian Abbott" <ian@emerald.gene.com>

Subject: AVT-112/AVR-20 aircraft radio question
Message-ID: <9603071347.ZM3428@emerald.gene.com>

Howdy, boatanchor fans-

A while back I picked up an AVR-20A aircraft receiver from Fair Radio because it looked interesting. (My main interests are US military *aircraft* radios of the vacuum tube persuasion.) It's small, more of a surfboard anchor really, but it's in nice shape and came with an NOS vibrator power supply. It receives 2.3 to 6.7 MHz, and works well.

My question is simple: In what type(s) of aircraft was this unit and the companion AVT-112 transmitter installed? I'd *really* like to know.

I'd also like to offer copies of the manual for the AVT-112/AVR-20 to anyone who has one of these rigs and needs a manual. Let me know by direct email if you're interested.

Cheers!

Ian Abbott

--

```
-----
Ian E. Abbott          | abbott.ian@gene.com
Genentech, Inc.        | Voice: 415.225.1793
Fermentation/Product Recovery | Pager: 415.655.9160
Information Systems Group | Fax: 415.225.5947
```

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: don merz <71333.144@compuserve.com>
Subject: AWA OTB FT/FS
Message-ID: <960307023425_71333.144_DHB66-4@CompuServe.COM>

Antique Wireless Association
Old Timers Bulletins For Trade

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.
412-234-8819 (weekdays, EST or leave a message anytime).
71333.144@compuserve.com. Offers and Trades welcome.

The following issues of the AWA OTB are available for trade or offers.

Vol 28 (1987-1988): 3,4
Vol 29 (1988-1989): 2,4
Vol 30 (1989-1990): 1,3,4
Vol 31 (1990-1991): 1,2,3,4
Vol 32 (1990-1991): 1
Vol 33 (1991-1992): 4
Vol 34 (1992-1993): 1,2,3,4
Vol 35 (1994): 1,2,3,4
Vol 36 (1995): 1,2,3

--

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: Radiomatt@aol.com
Subject: BA clock!
Message-ID: <960307111035_440396952@emout07.mail.aol.com>

I worked in a radio station many years ago, which had a lot of WE tube gear; not having the foresight to grab those when they threw them out, I took a Western Union wall clock instead; it ran on two monster 1.5 v batteries which rewound it every 20 minutes or so, and had contacts which mechanically aligned the minute and second hands at the 12:00 position each hour when they got a pulse from the Naval Observatory over a phone circuit from Western Union. Exactly then, the network would send news--presumably all the stations would switch to the net for hourly news.

Anyway, the cliock worked until 10 years ago; I'm on Long Island--is there anyone who can fix these things around here? It's about 24" across and is still a beautiful piece.

I'd also consider buying another one that does work.

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Vincent Hueber <vhueber@mailbox.syr.edu>
Subject: Re: BC-348 AC supply info
Message-ID: <Pine.SOL.3.91.960307195914.4694B-100000@gamera.syr.edu>

I have a BC-312N with dynamotor and in the manual for this rig is the schematic for the AC power supply that was also available for this receiver. It fit where the dynamotor goes. I understand that the 312 is a close relative of the 348.

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: MODSTEPH@ACS.EKU.EDU

Subject: Re: Bible Beating...

Message-ID: <01I21VOL8RFS00670D@ACS.EKU.EDU>

Interesting interpretation, that that particular quote should so set you off. I always took it as a seasonal quote - check the weather..

...and mayvbe lighten up a bit too...

73, A1 N5AIT
modsteph@acs.eku.edu

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996

From: robert fowle <hammarlund@voyager.net>

Subject: books for sale

Message-ID: <199603080238.VAA01265@vixa.voyager.net>

this is from news group..don't send mail to me..

Repost:

1---"Coyne T.V. Servicing Cyclopedia" 1955 Good condition
868 pages \$18.00

2---"Coyne Electrical & Radio Trouble Shooting Manual" 1943
591 pages
of which 220 pages devoted to radio's. excellent cond. \$25.00

3---"Coyne Radiomans Handbook" A reference & data book. 1946
345 pages excellent cond. \$18.00

4---"Audels Radiomans guide" 1948 879 pages very good cond.
\$25.00

5---"Radio Simplified" (what it is---how to build & operate the apparatus)
By Kendall & Koehler rare book *1923* 296 pages
very good cond.
\$20.00

6---"Basic Electronics Course by Norman Crowhurst 2nd edition. 1987
422 pages like new---\$20.00

7---"Basic Electronics Vol. 1 A Navy training manual 1980
560 pages book

contains chapters on transistors---electron tubes----detectors--rf
amplifiers--alignment
& much more. like new \$20.00

8----"Allied's Radio-circuit handbook" by A.R. Corp---- 1949 ed.
excellent cond.
 31 pages \$10.00

9----"Allied's Radio Builders handbook" by A.R.Corp. 1948 ed. ex.
cond. \$10.00

10---"Radio Call Book Magazine & Technical Review" Fall
Edition----Sept. 1930
 some of the articles are ---broadcast inc. s/w relay
stations-----radio
engineering-----service & repairs-----Feature articles on *Pilot
auto radios*
 Norden-Hauck super dx5--- service & repair schematics.
 Magazine is ex, cond. 125 pages \$25.00

11---"Radio News" by Hugo Gernsback Sept. 1926. cover is
torn slightly in
places & pages are thumbnailed inside is good to very good. \$28.00

12----"philco Serviceman Manufacturers service news" Feb. 1934 to march
1935.
May-june- july 1934 are missing. All sheets in ex. cond. \$20.00

13---- "RCA Receiving Tube Manual" RC-18 1956 good cond. \$14.00

14----"THE RADIO BOYS FIRST WIRELESS" by Allen Chapman 1922
 Very Good cond. \$15.00

15----"THE RadioBoys Rescue the lost Alaska Expedition" by Gerald
Breckenridge
 1922 good to very good cond. \$13.00

Thanks for looking in uconnfan@fast.net

=====]-[->

Robert Fowle
The HAMMARLUND Historian

Ph. voice or fax 517-789-6721

1215 Winifred

Jackson, Mich. 49202-1946

E-mail at: hammarlund@vixa.voyager.net

HAMMARLUND LITERATURE WANTED

=====]-[->

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996

From: "Hal R. Waite" <halwaite@netcom.com>

Subject: Change from Free to Fee Basis

Message-ID: <Pine.SUN.3.91.960306211611.21939A-100000@netcom4>

I have a concern about the change to a fee basis for Boatanchors that is not based on any monetary consideration.

I have used bulletin boards for many years, dating back to the days of 300 baud (you could read the text as it scrolled on each line). Many BBS systems changed from a free to a subscription basis and it is my experience that all of these ceased to exist after several months because of lack of support.

The Boatanchors mailing list will decrease as a result of the fee; several vocal individuals have posted criticism of the fee schedule and they and others will not subscribe. This will result in a less useful mailing for all. Fewer members, fewer postings, and fewer responses. As regards the "lurkers" that do not post on a regular basis, there is no reason to believe that these individuals do not respond directly to listings of wants or specific questions. After all, all recipients will not have an interest in the reply.

I fear that the imposition of the fee may mean the end of the Boatanchor mailings as we know them regardless of the modest fee.

Hal K4GFI/7 halwaite@netcom.com

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996

From: Michael.J.Knudsen@att.com

Subject: Re: Change from Free to Fee Basis

Message-ID: <9603072136.AA29009@bock.ih.att.com>

IS the subscription fee necessary just to receive the List? I assume it is. That will mean no "lurkers" after a while.

Wonder if it should work like ham radio -- anyone can listen,

but if you wanna talk you need a license.

OTOH I don't like a lot of lurkers reading and listening for free while we're paying. But maybe that's how we get new members, like all those SWLers that got ham tickets.

Anyway, Phil and Jack say there will be a free trial period available for anyone, liek a month or so, and that should help overcome the problems of new members.

Remember, it's alwasY been the case that nobody could receive the BA List without actively sending in a subscritpion message. Same now, except after a month you get a msg that it's time to pay or give it up.

I sent in two years' worth over a month ago and think this List is a steal at that price. 73, mike k aa9rg

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: Rick Blank <rblank@txdirect.net>
Subject: Collins Knob Painting
Message-ID: <1.5.4b11.32.19960307062334.00693524@txdirect.net>

A while back there was a little discussion about the proper color and lustre for Collins knobs..well, I have been experimenting a bit with two of the nationally known brands, Krylon and Rust-oleum, and have come up with the answers. The part numbers for the Krylon is Semi-flat Black, #1613. The Rust-Oleum is their "Premium Outdoor Decor Rich Satin Finish" Satin Finish Black, #7777.

A recent acquisition was a KWM-2/312B-5 combo in next to new condition. This gives me a reference point to compare the finishes on the 3 KWM-2A's knobs that I am refinishing. Also, this past year saw the acquisiton of a nearly new condition R-390A EAC unit with pretty decent paint jobs on it's knobs.

>From what I have been able to determine, the knobs used on the S-line series were painted with a black paint. A recent article in "Electric Radio" about the search for the perfect KWM-2A, suggested stripping and polishing the bakelite knobs...been there, done that, now gimme the t-shirt....I decided instead to repaint the knobs and see if I could duplicate the original finish. Now, it's not that I am against polishing the knobs, it may be a decent finish, it's just that looking at the time necessary to strip, clean and polish 27 knobs to the level I would want, would just take too darned long! I also needed to repaint two metal knobs, the fiducial adjustment and the crystal range knobs that appear to have been anodized originally...that makes a total of 33 knobs to refinish...these were ex-Navy MARS units and all the knobs are pretty well in need of total restoration! In fact, I bought 4 of these

-2A's and the

fourth one has "HAM - NAVY" scratched into the front (yep, right into the metal) right above the crystal range selector switch...that's the "spare parts" unit even though all four work well...

Stripping the knobs is another enlightening experience, I still haven't found a good enough stripper to do the job quickly, I am trying another one now, but after a couple of days soaking, scrubbing with Scotch-Brite and Dawn took off the last of the paint...a quick scraping of the engraved line with a dental tool and a quick scrub with a toothbrush took care of the cleaning of the knobs. The old center inserts, that were all messed up anyway, came out easily with the dental tool after the stripper soak.

The first knobs to be repainted are a couple of the main tuning knobs. The first one I did had a cracked skirt that was also loose. I repaired the crack with super-glue and after this was dry, sanded the extruded glue down to feather in the crack and help it disappear when painted. I then painted it with the Krylon spray. The Krylon Semi-Flat Black is a much better paint for painting assemblies that were originally painted this same lustre and gives a nice "professional" satiny appearance to many items. It also dries quickly.

The second knob needed it's skirt reattached, a little super-glue took care of that chore, and I then painted it with the Rust-Oleum paint. The Rust-Oleum paint takes a LOT longer time to dry than the Krylon, it took most of a day to get to the point where the "tackiness" was gone and the knob could be lightly handled...I expect that after about 48 hours the Rust-Oleum paint would be hardened quite well and most "normal" handling would not affect it. This paint has a higher lustre than the Krylon and might be used for duplicating parts that had a bit shinier appearance than the ones that Krylon could be used for.

The drying times of the two paints points out one of their main differences, the Krylon makes no statement on the label as to whether it is an enamel, acrylic or otherwise, or a lacquer based paint, but it seems as if it is probably a lacquer based paint. The Rust-Oleum, on the other hand, is described on the label as "Long Lasting Protective Enamel" and from my previous experiences with Rust-Oleum products, is a fairly decent, good durability coating.

I did a set of knobs for my R-390/URR a couple of years ago with the Krylon and there are chips and scrapes on the metal knobs where that paint has come off...I really feel that the Rust-Oleum paint would have been able to stand up to more use than the Krylon has...plus the lustre is a bit less than that of the R-390A that sits below it in the rack...

I did paint one 390 knob tonight with Rust-Oleum clean metal primer and

a coat of the R-0 Satin Black and will see how it looks tomorrow.

The verdict on the KWM-2A knobs? The Rust-Oleum wins, hands down. The finish makes the tuning knob look like it is a brand new unit and it's lustre very, very closely matches that of the KWM-2's knob. The knob looks more like a freshly manufactured plastic knob with the Rust-Oleum than it does with the Krylon. The skirt, at least on the KWM-2, the 312B-5 and a 75S3-A units here in the shack, seems to have a bit different lustre than that of the knob itself, in fact, the lustre of the skirt more closely matches the escutcheon's finish...perhaps the Krylon would be useful for these parts?...I'll know more when I get to refinishing the escutcheons in the near future.

I guess that I'll just have to paint the tuning knobs in two parts and then glue them together after they dry to maintain the appearance of the original knobs, which looking closely at the original knob, looks like that might have been the way it was originally done by the original knob's manufacturer...there appears to be no "filleting" in the area where the skirt attaches to the knob brings me to this conclusion...both painted knobs, even though sprayed with very light coats, have a bit of filleting in this area...

More as it becomes available!

Rick Blank, KI5SL
2223 Blanco Road
San Antonio, Texas 78212

rblank@txdirect.net
KI5SL@K3WGF.STX.USA.NOAM
AMSAT NA#26195

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: "SROYS" <SROYS@radiology.ab.umd.edu>
Subject: Contact cleaning
Message-ID: <286F3C0313B@radiology.ab.umd.edu>

I have a GR650A impedance bridge that I need to clean up. The switch contacts, etc... are all a little gummy and I was wondering what would be the best way to do this. The manual says to use 50/50 alcohol/ether but I'm fresh out of ether. Is there some contact cleaner spray or solution that stands head and shoulders above the rest?

Steven Roys (sroys@radiology.ab.umd.edu)

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996

From: lblaske@pclink.com (Lee Blaske)

Subject: Re: Cure for Yellowed Dials??

Message-ID: <199603080337.VAA28482@pclink.com>

>I recently aquired a rusty old NC-57 coated with decades of gooey crud... Just
>the kind of project any true BAite would love... One thing I need some help on
>though is curing the badly yellowed dials. Can these yellowed dials be
>scrubbed
>clean and white without removing the markers? If so, scrubbed with what? Or am
>I stuck with a pair of yellow dials no matter what....

I haven't done any experimenting with this, but I've thought about it and wondered if it might be possible. Color computer scanning, photo doctoring software and color printers are getting really sophisticated and cheap. I would think a yellowed paper dial, or say a meter or clock face could be scanned, touched up and printed out with excellent results. As far as plastic drums and dials go, I wonder if any of the heat transfer stuff (like the media they use to print out and iron on digitized pictures) would work. Maybe you could stick it on and give it a shot with the heat-shrink tubing gun.

I just saw a machine that prints full-color labels on CD ROM blanks. Perhaps something like this could be fooled into printing new circular dials. If you had white CD sized blanks, you could always cut them down to size later.

Here's a germ of an idea for a new cottage industry! (Contact me and I'll let you know where to send the royalties!)

Solid state to the rescue!

73's,

Lee AA0EF

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996

From: john.vercellino@n9csa.com (John Vercellino)

Subject: CW Crystals -- worked fine for me

Message-ID: <960307143004425@n9csa.com>

FWIW, I've used CW Crystals on 40 AM and have had no problems with them. They do exactly what they're supposed to do and at a reasonable price.

John WB90VV

I collect Knight-kit "junk". Any you want to get rid of?
john.vercellino@n9csa.com

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: USSAILIS@forum.phast.umass.edu
Subject: ECC88
Message-ID: <01I22FASU142009W07@rfd.oit.umass.edu>

I may be wrong, but I think an ECC88 was the tube I was using in an FM front-end in the late 50s. It was a selected ECC86 which would work with 12V on the plate. The application was an automobile FM band converter.

Jim, W1EQ0

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: "David L. Thompson" <thompson@mindspring.com>
Subject: Eddystone and Geloso
Message-ID: <199603080242.VAA17434@borg.mindspring.com>

Yes, there was a firm in California that sold Eddystone. They advertised in QST and mainly pushed the Eddystone dials, but in small print mentioned radio equipment. The ad also gave the name for the manufacturer of Eddystone in the UK. I visited a ham in New Jersey in 1959 who had an Eddystone receiver along side his 75A4. The dials sold well and you still see equipment show up at hamfests with the dial incorporated.

Geloso was sold in the USA by American Geloso. A good number of receivers and matching transmitters were sold. 10 or 15 years ago they would show up at a hamfest, but haven't seen one in years. Best bet is probably Dayton.

Both the Geloso (I think they were part of Marconi) and Eddystone were fine examples of late 1950's equipment. Several forces put them out of business...Collins (S-Line), KW Works in the UK with their fine KW1000 and 2000 series, Heath SB series, Drake 4 Line, Swan, Galaxy and most notable a joint effort by the Japanese and Germans called SommerKamp (Barry Electronics showed off the matching set in 1960). SommerKamp was the precursor of Yaesu. By the way this same group did in our fine American companies as well!

73, Dave K4JRB

Editor, 1996 Amateur Radio Mail Order Catalog and Resource Directory, ARRL

Order #5242.

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Marco Bruno <spin@inrete.it>
Subject: Re: Eddystone RXs
Message-ID: <9603072218.AA00534@inrete.it>

At 14.04 04/03/96 -0600, you wrote:

>I haven't seen any mention of the famous (in the UK at least) Eddystone
>range of receivers in the BoatAnchors. Could it be that very few found
>their way to the US ?

Well, some found a way to Italy (from UK, of course).

I have an Eddy EA12. An extremely fine all-valve ham-band-only receiver with variable selectivity, notch, narrow audio filter, product detector and so on. I'm searching for the schematics: any UK friend may help me?

73 - Marco - IK10DO spin@inrete.it

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: jpardue@communique.net (Joe Pardue)
Subject: Eugene Rippen email address??
Message-ID: <199603071828.MAA52247@tetsuo.communique.net>

Can anyone provide an email address or phone number for contacting Eugene Rippen, the author of "Tube Type Transmitter Guide"

I have his Auburn, CA P.O. Box already but am hoping for a more expedient means to reach him.

Thanks.

73, JoeP, KK5SQ

jpardue@communique.net

or CIS 71210,3311

JoeP

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996

From: JIM_ALLEN@HP-Cupertino-om5.om.hp.com
Subject: FEE
Message-ID: <H000030e02263d3a@MHS>

Item Subject: cc:Mail Text

I think this fee vs no-fee has been BEAT TO DEATH! There is no such thing as a free lunch. You can't even go to the movies for \$12 anymore.

Jim

KC6VWV

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: "James M. Toney, Jr." <tc1td@widomaker.com>
Subject: Fee=End of BA
Message-ID: <m0tuiFf-0000KUC@widomaker.com>

It's my humble opinion that a fee will kill the BA list in short order; there is just too much free access on the net to charge a fee. My prediction: BA will cease to exist in short order if fee is imposed; and a free BA clone will emerge to fill the void. BTW, I've been a subscriber (under a different address) since 1993 so I hate to see it go.
James M. Toney, Jr. KD4UEX Williamsburg, VA USA "out of sight..out of range.."

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Re: Fee=End of BA
Message-ID: <Pine.SV4.3.91.960307154556.29805A-100000@uhunix3>

> It's my humble opinion that a fee will kill the BA list in short order;
> there is just too much free access on the net to charge a fee. My
> prediction: BA will cease to exist in short order if fee is imposed; and a
> free BA clone will emerge to fill the void. BTW, I've been a subscriber
> (under a different address) since 1993 so I hate to see it go.
> James M. Toney, Jr. KD4UEX Williamsburg, VA USA "out of sight..out of range.."

And if this happens I'm sure we can get someone on Netcom.com to run the list; that site seems to be able to handle several dozen lists with no problems.

I hoping that after March 15 when we're all part investors of list the public scoldings will cease, and instead just the guilty party party will receive a private reprimand. It's quite embarrassing to be talked down to as if we're children who've been naughty. We are all professionals in our respective fields - we shouldn't have to view such condescending remarks in

our mailboxes just because the sender happens to manage the list.

Now here's a quiz: Besides the R390, did Motorola, the master of VHF, ever manufacture any HF BA gear?

Jeff NH6IL

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Kevin Pease <hamradio@mm1001.theporch.com>
Subject: Re: Fee=End of BA
Message-ID: <Pine.LNX.3.91.960307211703.7083A-100000@mm1001.theporch.com>

Kevin Pease
WB0JZG Mount Juliet, TN.

On Thu, 7 Mar 1996, Jeffrey Herman wrote:

>
> Now here's a quiz: Besides the R390, did Motorola, the master of VHF,
> ever manufacture any HF BA gear?
>
Yes, they manufactured R-390's. I used to have an R-390 by motorola.

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: David Metz <metzd@cfw.com>
Subject: FS New 811A's
Message-ID: <9603070326.AA03954@milo.cfw.com>

For Sale: 4-- NIB Sylvania 811A's \$75 shipped Conus. I would prefer to sell as a lot.

Thanks

dave metzd@cfw.com

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: "Terry O'Laughlin, RM:7135, #:6-6667" <OLAUGHLIN@vilas.uwex.edu>
Subject: FS: 1955 Heathkit Catalog
Message-ID: <MAILQUEUE-101.960307154524.512@vilas.uwex.edu>

Nick England's post on the Heathkit catalogs jogged my memory. In the bowels of my shack I located one, albeit one he didn't need. If

anyone else would like it, it is a 1955 Heathkit catalog, fair-good condition, cover is a bit loose, original owner's name is written on the cover in ballpoint pen and the word "personal", otherwise in decent shape. \$10 postpaid in the continental US.

73 Terry O' WB9GVB

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: Radiomatt@aol.com
Subject: Fwd: R390A
Message-ID: <960307095222_239829609@emout09.mail.aol.com>

Forwarded message:
Subj: Re: R390A
From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: "Nickels, Bob" <RNickels@P16.IL50.micro.honeywell.com>
Subject: GE Memories
Message-ID: <313F8288@mail_gw.micro.honeywell.com>

KIM writes:

> My favorite was a GE E-126 console that was one of the
>BIGGEST radio receivers that I have ever worked on, or owned. It got away
>from me and IF I EVER FIND ANOTHER ONE, that one WON'T get away.

which triggers the following recollection:

I owned the "big brother", the GE model E-155 all-band radio for many years. My dad and I bought it at a household auction in the late '60s for \$2.00 if I remember correctly. With a pair of 6L6's and a separate power supply just for them, the audio was terrific. It went from LW thru 50 megs, and was my introduction to LF beacons. Not knowing any better, I hauled it out back and used it mainly as a backyard PA system, blasting the local top 40 station to the neighborhood.

It was in storage for years at my parent's house, until about 10 years ago when I decided it would look fine in my living room, still unaware of just how good a receiver this really was. So I spent one summer refinishing the cabinet (ruining it, some would probably say) but it came out quite nice. Since it played OK, and again, not knowing any better, I didn't pay any attention to the electrical condition of the set.

Then one day, about a year after reclaiming it, I was home sick from work and at about 4 PM decided to turn it on and listen to the news on Newsradio

78 WBBM. For some reason I went to the basement for a while and after about 20 minutes I noticed that the audio had faded out. Figured it drifted off frequency. When I came back upstairs - the whole house was filled with smoke! The big GE was sitting in the corner, flaming away! Fortunately, it was the only thing on fire, and after a dousing of water, all I had to deal with was a smelly house and some soot on the wall. Evidently something under the chassis got really hot because the fire was confined to the shelf the chassis sets on. The tube sockets were fried, all components coated with soot and all the insulation burned off - I'd been lucky but I sure didn't feel that way! Sadly I scraped the remains into the trash and started looking for a replacement chassis. So far I've only found an E-126 chassis, but I continue to look and hope for a chance to redeem myself. Moral of the story: never make assumptions about the quality of a BA rig - especially if you'll really regret its loss!

Bob - KE0T

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: David Metz <metzd@cfw.com>
Subject: govt sale: tubes
Message-ID: <9603070356.AA05361@milo.cfw.com>

Want to buy some 4D32's? :(IN OGDEN UTAH)

go to www.drms.dla.mil/national/catalogs/indexcat.html

Sale # 31-6331 and items 257-260

Additional tubes in the thousands of course!

There is also over a thousand (in 100 lots of 10) radio set portable SEM52 AS 400 channel low power radios, 47.--56.975MHZ. Could this be some Desert Storm equipment as it is battery operated? (Items 84-191) located in Chambersburg PA.

Not exactly BA equipment but interesting surplus for 6M?

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: Thomas Bryan <tbryan@mailstorm.dot.gov> (by way of David Metz <metzd@cfw.com>)
Subject: Re: govt sale: tubes
Message-ID: <9603072236.AA07468@milo.cfw.com>

> There is also over a thousand (in 100 lots of 10) radio set portable SEM52 AS
> 400 channel low power radios, 47.--56.975MHZ. Could this be some Desert
> Storm equipment as it is battery operated? (Items 84-191) located in
> Chambersburg PA.
> Not exactly BA equipment but interesting surplus for 6M?

These are misdescribed. I know a person that bought some a few months ago.
They are the SEM-52 not the SEM-52 AS. The SEM-52AS is sythesised the SEM-52
is crystal controlled. These are German radios bought for NATO use.
I have a couple of SEM-52 and they are nice little radios. I think the ones
on sale are actually brand new.

Tom Bryan
tbryan@mailstorm.dot.gov

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: aevang@cris.com (alevangelista)
Subject: Re: govt sale: tubes
Message-ID: <199603080059.TAA10173@franklin-fddi.cris.com>

>There is also over a thousand ... radio set portable SEM52 AS
>400 channel low power radios, 47.--56.975MHZ. Could this be some Desert
>Storm equipment as it is battery operated? (Items 84-191) located in
>Chambersburg PA.
>Not exactly BA equipment but interesting surplus for 6M?

Chambersburg is home to Letterkenny Army Depot. This is where the TBK came
from which my Dad and I scrapped some years ago.

I may be able to hustle family or friend to take look at these if there is
any interest.

Snowed in in Saginaw, Al

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Randy.Cook@Corp.Sun.COM (Randy Cook)
Subject: Re: Hammarlund clock repair
Message-ID: <9603072047.AA14507@mmmkt.Corp.Sun.COM>

My HQ-180 came with a clock, working intermittantly, but working.

The clock is fairly simple. The face and hands are, of course, unique to

Hammarlund, but the motor and field coils are the same as the Telechron clocks used in millions of clock radios in the 50s and 60s. It is a simple swap for either motors or field coils. Helpful household hint.... remove the clock first, and watch the thin nuts behind the clock face. Harder than hell to find once they hit the floor.

There is a mail order antique clock parts company called Merrit's that sells replacement motors and field coils for Telechron, but they will not fit the HQ version.

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: mirage!pamars@Simba.AGN.NET (P.A.Marshall)
Subject: Hey, Lets start a new club, er, list
Message-ID: <9603071243.AA05157@mirage>

Look you all, I have an open mind, and I support free competition. So, get access to a sizable system, a 24hr internet connection, learn to hack list processor and sendmail software and start a new list. BTW, IMHO, news will not do it because of erratic delivery times, and that will create a lot of ill feeling when wanting and selling is going on. Now get it all running well, cure those little problems that plague Jack and Phil, *then*, and only then let us know, I assure you that I will sign up to such a free list. Of course there is the daily task of management, keeping the S/N ratio high, etc., so there would still be lots of value in the BA list for me. Now, for the total free load^H^H^H^H^Hdom lovers out there, I think Mr. 'T' has an offer outstanding to pay your subscription fees for you, please contact him for details. (Tom, if you are overwhelmed with requests, I will kick in a bit to the cause ;-)

So in short: Feel free.

Al Marshall	"Real Radios Glow in the Dark"	almarshall@acm.org
1+219.665.5072	Mirage Computers, Inc.	pamars@mirage.angola.in.us

"The lyf so short, the craft so long to lerne." - Chaucer

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Bob Duckworth <rmd@ka4ybr.ka4ybr.atlanta.com>
Subject: Re: Hey, Lets start a new club, er, list
Message-ID: <199603071954.0AA00682@ka4ybr.ka4ybr.atlanta.com>

I'm gonna send my \$12.

But, I have a suggestion. I think the list should be free for some initial period so as not to discourage new members. I've only been here

a month and don't feel that's long enough, but that's the details the listmeisters can deal with :-)

-bob

WB4MNF

700x and 350x when I'm on.

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996

From: Michael Crestohl <mc@shore.net>

Subject: Hopefully a final word on the subject of paid subscription.....

Message-ID: <199603071319.IAA00924@northshore.shore.net>

Hello Everyone:

It seems that Digest 518 was filled with more posts on the subject of charging for this list. This discussion is going nowhere fast. If someone else wants to start another similar list - I'm interested as long as it contains good solid information. If it does, I'll subscribe and contribute to it both with posts and \$\$\$\$\$, I will continue to support the BOATANCHORS-LIST here or wherever its reflector is located with posts on subjects I may have some knowledge and pay a reasonable annual fee for this SERVICE. I reiterate: My interest is that this resource continue. The more lists/newsgroups the better! ADVANCEMENT AND PERPETUATION OF THE ART OF THE FIREBOTTLE AND BOATANCHOR IS WHAT WE ALL ARE WORKING FOR!

These are my FINAL words on the subject!

Michael Crestohl, KH6KD/W1
mc@shore.net

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996

From: Marco Bruno <spin@inrete.it>

Subject: Re: HP 608D, 608E, and 608F Sig Gens ??

Message-ID: <9603072218.AA00484@inrete.it>

Great sig gens. Instability is not a big problem with mine - let me say, 1 hr warm-up to work on 2 mt and 3 hrs to work on 432.

The D may be modified for 430-up coverage, but of course you loose the dial reading. I modified a mil 608D (TS-510/U? I may be wrong) simply squeezing the 'U' strip of the last band. The top frequency was then 436 MHz.

The calibrator is a bare crystal, of top quality, enclosed into the

oscillator cavity. The RF leaks were not a problem for me ... different units have different leak levels.

Get some spare tubes; even the pencil triodes used into RF line are not difficult to find.

The attenuator precision is very good, always under 1 dB error. Not so the power output meter .. I calibrated mine with a bolometer.

I had D's and E's. I think 608F is better, having FM and phase lock capabilities. It may be more leaky (more holes into the RF cavity).

73 de IK10D0 - Marco - Turin

spin@inrete.it

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: "Mark Glusker" <glusk@mechcad3.engr.sgi.com>
Subject: Re: HRO to HRO coils
Message-ID: <9603070728.ZM13580@mechcad3.engr.sgi.com>

Mike Sanders writes:

> With only a couple exceptions due to mechanical design of the
> handles or lockdown pins all HRO coils work in all HROs. The only
> exception would be the HRO60 double conversion coils A, B and above
> and bandspread coils in those freq ranges.

One additional exception that I have just learned is that the RAS series of receivers (WWII era variants of the HRO) has a different IF frequency, thus the RAS coils will not work in other HRO's. Apparently the RAS coilsets can be easily modified to work in the HRO's, but that's a different discussion. I believe RAS coils are easy to distinguish because they use numbers instead of letters to identify coilsets. Not an HRO, true, but it looks almost identical so I thought it was worth mentioning.

One other rule to remember with HRO's is that anyone who owns one is perpetually looking for at least one of the coilsets. For example, I am looking for a "G" coilset for my HRO-5. Everyone I know with an HRO has the same problem, and it is compounded on the later HRO's by the need to have the appropriate dial scale.

Mark Glusker, glusk@sgi.com
(that's the "G" coilset, as in "Glusker")

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: Radiomatt@aol.com
Subject: Re: HRO to HRO coils
Message-ID: <960307110433_440392136@emout10.mail.aol.com>

W J Ford Surplus in Smith Falls, Ontario currently list a set of National Plug in coils for a National preselector. You might want to give them a call, as I don't know what they're offering.

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: Jim Dillon <beadgal@ptialaska.net>
Subject: RE: HRO to HRO coils
Message-ID: <01BB0BFB.A0576700@juneau_39.dialups.ptialaska.net>

The coils at Ford Surplus are FB-7 coils ABCD, not HRO. RAS coils will work in HRO up to -5, but you will need to retune osc and mixer for the i.f. difference. image rejection really suffers ,but o.k. for Broadcast band (Eand F)purposes.

Be careful trying to put -5 and earlier coilsets into -6 and later (-50,etc.). There is difference in height of the steatite/whatever supports for the contacts. Details are in OTB article a few years back, let me know if you need details on washer replacement, but for now don't push in any coil set that balks when reaching the contacts.. Keep those PWs twirling! I saw some G and H coils for sale recently...will try to find where. I'm looking for E and F, also coils/coil forms for 1-10 National or coil winding info for same. Have 1-10 for sale also.
Jim Dillon WL7CMQ beadgal@ptialaska.net
still seeking NC-100X, other Green Eyed Thirtiessomething Ladies

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: ks0f@i1.net (MIKE SANDERS)
Subject: Re: HRO to HRO coils
Message-ID: <199603071713.LAA09554@mail1.i1.net>

>One additional exception that I have just learned is that the RAS series
>of receivers (WWII era variants of the HRO) has a different IF frequency,
>thus the RAS coils will not work in other HRO's. Apparently the RAS
>coilsets can be easily modified to work in the HRO's, but that's a
>different discussion. I believe RAS coils are easy to distinguish
>because they use numbers instead of letters to identify coilsets. Not an
>HRO, true, but it looks almost identical so I thought it was worth
>mentioning.

>

>Mark Glusker, glusk@sgi.com
>(that's the "G" coilset, as in "Glusker")
>

Thanks for the additional info Mark. With enough pieces we can begin to get a picture of the whole 30 or 40 years of this type of receiver. My HR07 coils are the "C model" which was a desk rack unit and painted black wrinkle instead of the light grey. I doubt if many were marketed but who knows. I know there are some HRO authorities out there in the group. Maybe they will provide us with their wisdom. Many articles have been written on the subject but today it would be nice to have cross information model to model. Due to the coil search you mentioned its good to know another type coil will work in your receiver to get it on in a certain range. Naturally we all want matching coils and will continue the search but interim is good and can be moved on to another hunter when the matching coil is found. As time goes on and coils and radios get farther seperated the info will be more important. Overall the coil and dial scale search may be the draw to the HROs for me. It's a challenge for certain. A recently acquired NC183D with matching speaker and the manual is very nice indeed. I truely like the receiver but I have admitted to myself that it is not a HRO. It may be that the 183D is complete and the hunt is over whereas my search for HRO stuff might last forever. I do know that the hunt is a major part of the game for me. Every bit of information on this series (including the military types) receiver acquired is a small accomplishment to enjoy. Information is obviously a big part of the hunt. This BA list is the most effective teacher I have ever had. I don't care for instant gratification when it comes to BAs. I prefer to savour the search and enjoy the reclamation but information and the knowledge it can bring is power. This list is very powerful and tool number one. What knowledge and information you may take for granted may be new fun for others. Keep the fun coming.

73 de KS0F

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: "Mike O'Brien" <mobrien@lib.drury.edu>
Subject: RE: HT-18 confusion
Message-ID: <Pine.3.87.9603070140.A60564-0100000@lib.drury.edu>

Dick Dillman recently wondered if Larry Johnson's recent acquisition really is a Hallicrafters HT-18, a VFO/QRP rig, CW-NBFM, bandswitched 80-10 meters. Dick seemed to recall a similar rig from his high school days that was xtal-controlled with plug-in coils...

From his description, Larry does, indeed, have an HT-18. What Dick remembers is the HT-17 a 10-watt CW rig that covered 160 through 10 with xtals and plug-in coils.

Both date back to the late 1940s and are fairly rare (especially

the HT-17). I've enjoyed both...

Mike O'Brien
mobrien@lib.drury.edu

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: dma@IslandNet.com (Jan Skirrow)
Subject: I Can't Believe It Either!
Message-ID: <m0tuUs4-000FgaC@island.amtsgi.bc.ca>

I can't believe the whining over the \$12 bucks. My business (not BA related) depends on small computers, and I know how much it costs - to the penny - to stay reasonably up to date. Anyone who thinks the list owner is going to get rich on our backs isn't paying much attention to how much this stuff costs. I could run the list, but my ISP would want at least \$200 a month just for the connection, and that's assuming I can find a way to get a high speed line to him, which isn't possible yet from this location. So we're talking ISDN, high speed modem, possibly another server (my machines are pretty busy earning me a living), cost of running a PC 24 hours per day, probably at least one more large capacity hard drive, maybe more RAM - and on and on and on. Not to mention the occasional bit of aggravation!

Anybody who tells you this can be done cheaply is wrong - but hey, if they want to take it on for free, and provide the same high quality, more or less continuous service, I'm sure listowner will at least listen to an offer for his hardware. Of course, the consulting fees to set it all up may be a bit steep! I expect, though, that within a year, the "free" operator will be back to where we are right now.

In the meantime, I've paid my \$12 (and in US money at that - about \$16 Canadian) and consider it one of the truly great all-time bargains. I personally hope each and every one of you who value this forum as I do will do the same. However, some won't, so at least after March 15 there shouldn't be as much carping.

Cheers All - BoatAnchors Forever!

Jan Skirrow, VE7DJX
dma@islandnet.com

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Morris Odell <morriso@vifp.monash.edu.au>
Subject: Re: I Can't Believe It Either!

Message-ID: <199603080014.LAA07233@vifp.monash.edu.au>

At the risk of posting off topic I really must add my \$0.02 worth. Hams are like anyone else, there are stingy ones and greedy ones. While I find the stinginess over \$12 quite baffling (the reticulated garbage of cable TV my XYL insists on having costs \$40 per month here) I have also been overwhelmed by the generosity of list members.

This place is like a local friendly bar where you can pop in for a chat with like minded people and learn a lot from very knowledgeable and experienced members. A recent post for advice resulted in many replies with advice and even a mailed copy of a manual (to Australia from North America) at no charge despite my offer of payment.

This sort of generosity and spirit is what I have found among many hams over the years (of course there are some bad eggs too..) and adds enormously to the pleasure of this hobby.

Those too mean to pay the \$12 will miss a lot in more ways than they realise.

Morris Odell VK3DOC Paid up Anchorite and proud of it!
morriso@vifp.monash.edu.au

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: Sandy Blaize <70401.134@compuserve.com>
Subject: I Can't Believe It!!!
Message-ID: <960307043203_70401.134_IHD71-2@CompuServe.COM>

Yep, I agree! I'm on a "fixed income", and I literally "piss away" \$12 a year! I can't believe anyone will be broke on account of a dollar a month.
If you are in the BA collecting business at all, \$12 is a very paltry sum of money.
Back in the '30's it woulda been serious, but now....come on!
73,
Sandy W5TVW

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: I-177A Tube Test data
Message-ID: <66999.ddillman@igc.apc.org>

Will the person who needed the tube test data for the I-177A tester

please drop me an email?

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: "David L. Thompson" <thompson@mindspring.com>
Subject: Knight R-100 Receiver review found
Message-ID: <199603070625.BAA19367@borg.mindspring.com>

Seems the R-100 is a hot topic. I found a review in the November 1958 QST pp 45-47. Seems the name for this unit is or was th Allied Knight-Kit Deluxe all-band amateur receiver 83YZ2726.

The article gives a top view, a bottom view, and a block diagram.

73, Dave K4JRB

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Michael.J.Knudsen@att.com
Subject: Re: Knight R-100 Receiver review found
Message-ID: <9603071936.AA28657@bock.ih.att.com>

The R100 (not A) was my first ham rx, and my first major kit-building job at the age of 16. Really neat looking set, with the case sides overhaning the front panel, in a style similar to the NC-270 or much more so. Moore's photo doesn't do it justice. Really sharp from a side-angle view.

The later R100A, which so far as I know was identical inside, threw out all the good styling and looked really flat-faced and cheeeep by comparison.

I soon bought the optional 100KC calibrator for mine, but by the time I went to get the optional S-meter Allied was out of them -- the 100A meter wouldn't fit.

Anyway, it was a very "hot" rx, with the latest tubes of 1960 -- 6BZ6 or maybe 6DC6, or maybe ?? in the RF, and the rest to match. The multifunction Q-multiplier was terrific, tho not so good for AM and SSB except for notching out hets. You did have to keep chasing the CW signal as it drifted across the band, tho -- neither thermal nor mechanical stability was a forte of this rx. In fact, like most Knight kits, its physical design

left a lot to the fantasy life -- sloppy shaft couplers and vernier drives on the main and BS tuning spoiled what could have been a great tuning feel. Had I known where to get good couplers, I could've really improved this set.

Plenty of audio with good bass made it a good BC set too. Calibration on the BC band (and others) was so-so.

But for \$99 it was a great deal, and was solid competition for the \$149 SX-99 that everyone else in town had.

I wasn't the only one who made the mistake of building it without the S-meter; the two I've seen for sale lacked the too. You can't check for the calibrator without taking off the bottom panel or operating the set. BTW it was a good cal with plenty hot harmonics on 10 meters, tho you really need a 1-MC cal up there, not 100 KC.

Other than the physical limitations, the R100 is a superb example of late single-conversion superhet design, with all that implies. 73, mike k aa9rg

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: n5off@w5ddl.aara.org
Subject: Lafayette, LA Fest, 3/9
Message-ID: <318198@w5ddl.aara.org>

Join us at Lafayette, LA for the W5DDL Fest, Holidome, Sat-Sun beginning 3/9. Plenty of iron to tote home and get yourself in trouble over.

73 de tom

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: Michael Crestohl <mc@shore.net>
Subject: LET'S KEEP THE BIBLE BEATING OFF THE LIST - PLEASE!!!
Message-ID: <199603071329.IAA02953@northshore.shore.net>

Hello All:

While I'm in the "Piss 'n Moan" mode:

I can do without this kind of propaganda in people's sigs:

>"From whose womb comes the ice?
>Who gives birth to the frost of the heavens
>when the waters become hard as stone,
>when the surface of the deep is frozen?"
>

> Job 38:29-30 (NIV)

I find 'bible-beaters' on the air offensive. I find religious peddlers at my door equally offensive. I've "egged" persistent Jehovah Witnesses who didn't have the good sense to remove themselves from my property when ordered to do so and am proud of it! I throw any printed material of this nature, including QSL cards in the shitcan immediately. I would greatly appreciate not having to see religious quotes or bible tracts in my e-mail either.

I have no problem with the concept of religious beliefs - so don't peg me as a heathen! Most religious teachings are good and honorable but these are very personal matters and in my opinion, have NO place here or any other public forum except those specifically intended for these matters.

Its about as far off topic as you can get!

Michael Crestohl, KH6KD/W1
mc@shore.net

My Nomex suit is donned - flame away 'bible beaters'! You will not receive any acknowledgment but I await the entertainment!

"I'm just so Yellified.....I just don't know....." The Timtron (WA1HLR)

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: Jim Dillon <beadgal@ptialaska.net>
Subject: McMurdo Silver 701 tubes
Message-ID: <01BB0BFF.FC302400@juneau_39.dialups.ptialaska.net>

Hi Dennis et al-
The little Silver was also marketed as Barker&Williamson 701.
It has 807 final, 6AQ5 tri-tet osc and (2)6AQ5 p-p modulators. So you can't go wrong on tube location! Finding a carbon mic is next. And how's the plug-in coil situation? Replacements can be wound on dud tube bases. Power for plates about 300 for phone, more o.k. for CW. The other plate leads are for the oscillator, and another lead for the modulators. Add more decoupling for these. I guess the screen is dropped inside, I haven't looked at mine.

There's a not too informative article on 701 in March 1993 Electric Radio; no schematic there, nor do I have one with mine. I have the matching 802 rcvr, a real cutie.
Jim Dillon WL7CMQ Beadgal@ptialaska.net
Desperately seeking NC-100X National and other Green-Eyes

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: Andy Howard WA4KCY <102452.362@compuserve.com>
Subject: Michael Crestohl's Flame
Message-ID: <960307173058_102452.362_DHT52-1@CompuServe.COM>

Re: Bible Beating on the List

Michael Crestohl said:

>Hello All:

>While I'm in the "Piss 'n Moan" mode:

> QSL cards in the shitcan immediately.

>I can do without this kind of propaganda in people's sigs:

What kind of propaganda would be suitable in people's sigs?

While this is probably best expressed in a private post to Michael I feel that since it was aired on the list at least some public reply becomes necessary.

I find Michael's choice of the words "piss" and "shitcan" very offensive. Rather than having the poetic beauty of Job's words, Michael's language is better suited to the gutter than on the pages of Boatanchors.

Andy Howard, WA4KCY
102452.362@Compuserve.com
Southeastern Director
AM International
Certificate Number 9

<><

Collector, Restorer, Builder

WANTED: BC-611 Handy-Talkies and

Parts

Internet Home Page:

<http://ourworld.compuserve.com/homepages/sweetbay>

For the wages of sin is death; but the gift of God is eternal life
through Jesus Christ our Lord. (Romans 6:23)

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: k1zat@bah.com
Subject: Re: Michael Crestohl's Flame
Message-ID: <Pine.SUN.3.91.960307221222.27363A-100000@booz.bah.com>

For once ...

On Thu, 7 Mar 1996, Andy Howard WA4KCY wrote:

> >While I'm in the "Piss 'n Moan" mode:
> > QSL cards in the shitcan immediately.
> >I can do without this kind of propaganda in people's sigs:
> I find Michael's choice of the words "piss" and "shitcan" very offensive.

...someone has said something worthwhile thats not BA related. Words like those and a few (thousand) others, of the four or five letter variety, can stay in your vocab. You want to speak like a garbage can, do so in the confines of your house, neighborhood or face to face conversations. There's enough of this stuff on 75 and 11 meters. There AINT no place for them on the BA list.

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: Joe Veras <jveras@wwisp.com>
Subject: NC-400
Message-ID: <199603071352.HAA23870@ns1.wwisp.com>

-- [From: Joe Veras * EMC.Ver #2.5.02] --

Anyone know the physical dimensions of the National NC-400? Contemporary reviews and a recent ER article don't make any mention if size.

Thanks-
Joe Veras, N4QB

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Michael.J.Knudsen@att.com
Subject: Re: NC-400
Message-ID: <9603072013.AA28790@bock.ih.att.com>

Say -- I've been meaning to post questions about the NC-400.
This seems to be National's answer to the SP-600 -- general coverage

but WITH Bandspread (a la HQ-180), 7 bands (take that, Hammar!),
and other good features.

Is this rx as good as it reads in Moore's? What are the odds of finding
one? I'd expect to pay some bucks for it, but if I find one before I find
an HQ-180A or 51J4 I'll have the money, I hope.... 73, mike k aa9rg

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Need a 6 vac relay
Message-ID: <9603071956.AA01496@syseng1.se.melpar.esys.com>

Anybody got a spare 6 VAC relay you'd like to unload? A
Potter & Brumfield KA series is preferred.....any contact
configuration will suffice, but a DPDT or 3PDT would be simply
splendiferous.....

E-mail to pbock@melpar.esys.com

73,

Paul, K4MSG

* Paul H. Bock, Jr.	* Principal Systems Engineer
(_) * E-Systems/FC Division	* Telephone: (703) 560-5000 x2062
) * 7700 Arlington Blvd.	* Internet: pbock@melpar.esys.com
* Falls Church, VA 22046	* Mailstop: N204

Arguing with an engineer is like wrestling with a pig.
Sooner or later, you realize the pig enjoys it.

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: "Lee K. Gleason" <gleason@MWK.COM>
Subject: Need KWM2A/516-F2 help, and looking for a BC-348...
Message-ID: <0099EF8D11207F60.20C0415C@mwk.com>

Last week, I was replacing the well worn 6146s in my KWM2-A,
when I got distracted. I unfortunately left the plate cap off of
one of them, and it came into contact with the HV cage, thus
grounding the B+...a fuse blew when I powered it on, as you would
expect...I figured out what was wrong and connected everything
up right...but, the fuse blows every time I power up now.

Before I start poring over schematics and taking things apart, I'd appreciate hearing from anyone who has worked on this gear enough to suggest where to concentrate my trouble shooting efforts...

..I'm also looking for a BC-348 in good or better condition, with an AC power conversion.

Thanks

Lee K. Gleason N5ZMR
Control-G Consultants
gleason@mwk.com

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: Michael Crestohl <mc@shore.net>
Subject: Re: Painting Collins Knobs
Message-ID: <199603071621.LAA22280@northshore.shore.net>

Great article Rick! That's the kind of stuff this list is for. I have a box full of R-390 knobs awaiting my attention and your article/posting will help me restore them to useful status.

Where else could we get such knowledge?

73.

Michael Crestohl, KH6KD/W1
mc@shore.net

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: R-100 as oppose to R100-A
Message-ID: <UPMAIL03.199603080105260222@msn.com>

Steve and Gang,

There seems to be some confusion about the differences between a Knightkit R-100 and R-100A. I think physically the guts are the same but from what I can remember from 1960 or so the R-100A was all Black and the Q-multiplier section was really cheap looking and had a Big RED dial control Pointer. Thats the one I would like to get as thats the one I owned when I was 14 , Almost positive it was an "A".Any experts that could concur.

My small collection of QST's and CQ's go backward from 1958 and I can't reference to that.

R-100A - You ship for \$100.00 cash

Sorry Steve Iam pretty sure you got a R100. To be sure send me the GIF.

Also No Replies on the NC-60 For \$75.00, you ship. Amazing as I thought they made a lot, could be wrong, usually am.

BTW, Saw wife measuring the kitchen windows for mini blinds., better hurry as cut off is the 8th at 5:00 pm central. Go ahead and make my day

Al

fritsche@msn.com

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996

From: n5off@w5ddl.aara.org

Subject: R-390 Production Correction

Message-ID: <318196@w5ddl.aara.org>

There was an earlier post on R-390 production.

Actually, R-390's were made by both Collins and Motorola. There were also some tagged "Motorola made for Collins".

I agree that in 1996, the performance of a 390A is more related to its condition and the skill of the alignment person. I have heard from Old Timers that the Amelco RF decks were exceptionally hot. My R-725 has no matching modules of any sort, a real mix of cats and dogs, and it is hotter than my all Collins R-390 and R-390A, both in good shape and aligned by the same guy (me).

Go figure . . .just do the alignment carefully and it will be sufficiently hot.

73 de tom

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996

From: "L. Mark Pilant - MS":"ZK03-4/Y02 DTN:381-1529" <pilant@seesaw.ENET.dec.com>

Subject: R-390A Alignment

Message-ID: <9603071409.AA17638@us2rmc.zko.dec.com>

Well, I've finally started to tackle the task of aligning my recently acquired R-390A. All in all it appears to be fairly straight-forward. (Made easier by the fact I don't have to diddle with the mechanical synchronization.)

One of the first things in the alignment procedure is setting the staggered IF. The question I have is in how the signal generator (URM-25) is used. The connections and frequency are specified so they aren't a problem. But what about a modulation frequency and percentage modulation?

I'm using an HP-606B which is easy to use. (Especially after I aligned it and connected the uncalibrated output to my frequency counter.) However, I'm not sure whether or not the voltage checks specified are with an unmodulated or modulated carrier (and if modulated, what percentage and frequency).

Is it really the case where the tests will specify modulation if necessary and if modulation is not mentioned, an unmodulated carrier is used?

Thanks in advance.

- Mark N1VQW

PS: Just to make it more interesting, the firebottle audio power amp I'm using with the receiver lost one of the cathode bypass caps in the PA section. So much smoke from such a little package :-) SO now I'm using my LS-166 until I get the amp fixed. Ah...the mushroom factor :-) :-) :-)

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: n5off@w5ddl.aara.org
Subject: R-390A Users, Data Wanted
Message-ID: <318194@w5ddl.aara.org>

I've seen numerous posts lately from new owners of R-390A's. I'd like to invite these folks (and any others I haven't heard from) to contribute to me their 390A contract data for the BA users data list.

Shown below is the complete poop.

73 de tom
Reply to: n5off@w5ddl.aara.org@us1.edu

To get a copy of the subject list, send an Internet message to:

listproc@theporch.com

leave the subject line blank

in the body of the message type

get boatanchors r390a.users

Thanks to all who have contributed R-390A info. We have data on about 200 rigs from 17 contracts. The lowest serial number seen was 2, and the highest in a given contract was over 6000. Contributions include those from Dittmore-Freimuth and Fowler Industries contracts, as well as an EAC Industries consumer products run.

As I mentioned in earlier posts, I am compiling a survey of R-390A's owned by people who frequent the packet and Internet boards. The object of the game is to try and ascertain how many contracts were let for manufacture, and how many were made.

If you wish to participate in the census and you own one or more R-390A's (or spy them on ships, hamfests, or just anywhere), please go take a peek at it (them) and then reply to me with this information:

- 1) maker (EAC, Motorola, etc)
- 2) order number (63-PH-54 for ex) from the front tag
- 3) serial number off of the front tag
- 4) any unusual features (tags, stamps, frequency shield, etc)

The list includes an accounting of the contributors, however, the names are not matched with the rigs. If contributors have a desire to sell their rigs, I'm sure they will speak up, so you won't get any cards or letters from making a data contribution to the list.

Thanks,

de tom n5off%w5ddl.aara.org@usl.edu Internet
n5off@k5arh.la.usa packet

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: d-hlinsky@nwu.edu (Don Hlinsky)
Subject: Repairing Clock Motors
Message-ID: <199603071547.AA295483660@casbah.acns.nwu.edu>

On Wed, 6 Mar 1996 Bob Roehrig wrote:

>Maybe this has been mentioned before, but I have "repaired" some electric
>clocks (Telechron, G.E., etc) by drilling a small hole in the casing and
>spraying in some WD-40.

I have also used this technique with generally good luck. For those stubborn cases (and I have had a few) a good cleaning is in order before lubricating. This requires drilling 2 small holes, one for venting one for filling, 90 degrees apart on the case (place the holes so that they will be more or less up when the motor is reinstalled). Next, inject a few cc's of

"Carbo-Chlor" or the more environment friendly versions, and then shaking the motor well. Repeat until you get no more crud or discolored carbo-chlor out.

Instead of WD-40 I prefer a very lightweight model oil (as in model trains, etc.). Don't get me wrong, WD-40 is wonderful stuff but it seems to gum up relatively easily. I usually inject about 1 cc of oil and slosh it around in the case before draining the excess (if any). Before putting the motor back into service I leave it in a warm place, output gear side down, for a few days to allow any excess oil to drain away from the rotor (located in the protrusion that is held between the pole pieces). Before reinstalling, drain any further excess oil. Reinstall the motor and try running it for awhile. If you got too frisky with the oil the motor may not run, or run poorly because of oil drops on the rotor. If that happens, simply clean it and try again.

If all appears to be well, seal the holes with a small dot of silicone rubber or other *heavy bodied* glue. Don't turn the motor on and off while the glue is drying or the pressure change in the case may draw the glue into the motor - NASTY!

My parents have a 40+ year old wall clock that was resurrected this way about 5 years ago. It has been running happily ever since.

btw, my "subscription" check went into the mail this AM. Keep up the good work!

73,

Don - N9IZU

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: don merz <71333.144@compuserve.com>
Subject: SCR-187 Manual WTB
Message-ID: <960307212253_71333.144_DHB28-1@CompuServe.COM>

Wanted: Military SCR-187 manual, copy okay....or trade my original SCR-193 manual for your original SCR-187 manual.

Thanks.
Don, N3RHT
71333.144@compuserve.com

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Sign of the Coil & Anchor

Message-ID: <67002.ddillman@igc.apc.org>

I checked <http://red-agnes.la.ca.us:8080/> today and looked in at your BA logo. Verdict: two thumbs up! I'm ready to buy my T-shirt/hat/pin, etc. Nice.

Dick Dillman
WPE2VT N6VS ex-WA2BJK
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Herb Holeman <choleman@ptialaska.net>
Subject: Slop-jar rectifiers
Message-ID: <01BB0C5C.94143F20@juneau_30.dialups.ptialaska.net>

I'm about one generation too young to know anything about slop-jar rectifiers, but I enjoyed reading about them in W8JK's autobiography "Big Ear" by John Kraus. Even my father-in-law, KL7W, was unable to come up with a recipe for making one, but I'm confident that someone out there in BA cyberspace can give all of us old timer wannabe's directions for building a demonstration slop-jar rectifier.

What I'd like to build here is a single slop jar rectifier connected to a lightly fused variac, a small light bulb as a dc load, and then torch the thing off at the next ham club meeting. I understand that they emit a glow of colored light during normal operation--can anyone confirm this? So how do I build a demonstration slop jar rectifier, and how much voltage can I safely apply to it and how much current can be drawn? Any experts out there in netland, or anyone with any good books on the subject? Enquiring minds want to know.....

Herb Holeman, WL7BIL
Juneau, Alaska
choleman@ptialaska.net

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: RE: Stand Corrected HUM problem
Message-ID: <32969.owen@apollo.eeel.nist.gov>

In message Wed, 6 Mar 1996 19:12:23 -0600 (CST),

"Allan Fritsche" <fritsche@msn.com> writes:

>
> Not so worthless is what is the recommended length of a commercial ground
> rod for the AC mains, I am sure there is code that has to be met but do
> not have a copy. Anyone know for Texas or in particular Houston.
>
> 8 footers are available at RS.
>
There is a lot more to grounding than the length of the ground rod. However,
to answer the question directly asked, I made reference to an OLD copy of
"Safety Rules for the Installation and Maintenance of Electric Supply and
Communication Lines" NBS Handbook 81 issued Nov 1961. Note: 1961--things may
have changed. "Driven electrodes of pipes or rods ** shall be driven to a
depth of at LEAST 8 ft regardless of size or number of electrodes used." So
8 ft is NOT enough unless the rod is completely underground. "The electrodes
shall, if practicable, have a resistance to ground not to exceed 25 ohms."
Go to your local library and look for a handbook on grounding, you can spend
several hours reading about this OBVIOUS SIMPLE problem.

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Jim Heaton <jheaton@ic.net>
Subject: Swan 400
Message-ID: <313FA16B.3828@ic.net>

Hello all!

I've been lurking here for a couple of weeks and am impressed by the
concentration of knowledge & experience with premium radios. I myself have
little of either when it comes to tube rigs, but my kids & XYL bought me a
Swan 400 with various accessories from its original owner a few months back.
I have lots of questions: How long can I expect the tubes to last & what can
I do to extend their life? Which are most likely to blow (the 6hf5 finals?
TV sweep tubes of some kind I believe)? What are the strengths & weaknesses
of this radio? Any recommended operating procedure - I have the original
manuals and am following the steps outlined there though not everything
adjusts exactly as they imply it will. How complex is it to adjust the VFO
to line up better with the band frequencies - it is not simply shifted, it is
off by a varying (but linear) amount moving up any band? The manual states
it has around 420 Watts input - What output should this equate to?

Anything else you can provide me on this radio would be appreciated. I'd
like to learn a bit about the culture of this list & how it treats newbies
before the 15th.

73 and thanks,
-Jim AA8RF

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: w7ni@teleport.com (Stan Griffiths)
Subject: Re: Tek 575
Message-ID: <199603070808.AAA25028@desiree.teleport.com>

>Dear Stan, Hank and the gang,
>

>After reading about how useful they are on this group, I found I couldn't
>resist a Tek 575 when one presented itself to me for only \$50. It looks in
>good condition inside although a bit grubby outside. No obvious scorch marks
>or smoke stains!. I haven't tried it yet as I thought I'd ask the gurus a
>few questions first:

>

>1. The fan motor feels stiff, what is the preferred way to lubricate it?

When rebuilding a scope, I generally completely disassemble the fan motor and clean out all the old gummy oil around the motor shaft near the oil reservoirs. I also inspect the washers and bushings for excessive wear and replace them if necessary with new nylon washers instead of the old steel and phosphor bronze ones. With new washers, the shaft should have about 1/32 inch of end play when the motor is reassembled and the bolts are tight. While it is apart, I saturate the felt in the oil reservoirs with fresh oil. Don't forget to reinstall the fiber washer on the shaft between the fan blade and the motor. This washer keeps fan motor oil from traveling out the shaft and onto the fan blade where it will be thrown around the inside of the instrument. I got my supply of nylon washers from Tektronix when they were selling them in kit form for rebuilding fan motors. I have only a few left and need them for future projects so I cannot supply any to you. I have heard of others who have successfully used flat metal washers instead of nylon ones in place of the springy phosphor bronze washers originally supplied with the motors. One thing to watch out for is making sure you reassemble the motor exactly as it was assembled originally. Watch how the motor shaft mount castings are oriented relative to the way the wires exit from the windings. Make sure the oil filler holes point up and not down and they can be reached with an oil can after assembly and mounting of the motor in the instrument. This procedure will appear in my new book in more detail than presented here.

>2. It's wired for 117 V - I've written to ask Deane Kidd for a manual but
>while it's coming, can anyone tell me the procedure for converting it to 234
>V? This is not super urgent though as I have a suitable "shipanchor"
>transformer here to run it with.

There are two short paragraphs that describe this in the microfiche manual

that I have. I will repeat them here, but cannot guarantee they will be 100% correct for your instrument because the 575, like all Tek instruments, evolved over time and the microfiche version of the manual always is a copy of the last one produced.

"234-VOLT UNBALANCED-LINE CONNECTIONS"

"Special transformer connections are required for T701, the PEAK VOLTS transformer, if the Type 575 is to be operated from a 234-volt line that has one input line at approximately ground potential. This configuration is called unbalanced line, as distinguished from the usual balanced line used in the United States in which a virtual ground potential exists near the center-tap connections of the power transformer primary windings.

For 234-volt unbalanced-line operation, the live side of the power input is connected to fuse F601 and ground-potential side of the input is connected to terminal 1 of T601. The leads of T701 are connected between terminals 1 and 3 of T601 so that T701 is not at an elevated voltage, and the fan connections are moved to terminal 2 of T601 and the input side of thermal cutout TK601 to balance the load on the transformer primary."

There is a diagram that accompanies these two paragraphs and it might be best if you waited for the manual if the above procedure is not perfectly clear. In fact, now that I study the diagrams more closely, they show that the double primaries of the power transformer are wired in series for 234 volts and in parallel for 117 volts. This "detail" is not mentioned in the paragraphs above. I suggest you wait for the manual diagram.

>3. This one has selenium rectifiers in it. Is it possible to obtain the >values of series resistors to use as recommended by Tek to convert it to >silicon?

Guess what? Tek does not recommend any series resistors in the 575 silicon modification. This is the only time I have seen them leave out series resistors. I have the instructions in hard copy form and can make you a copy for \$2 USD (8 pages) plus postage.

>4. Can anything useful be done with the socket on the back marked "175 >adaptor or differential connection" - if so, where can I get a suitable plug?

I have never used that plug for anything (except during the calibration procedure), mostly because I don't have the Type 175 adapter (for high current devices). If you get a 175 and decide you need a mating plug for it, I probably have one somewhere around here I can part with. Let me know.

Good luck with your 575, Morris. I predict you will get hooked on it and you will not ever want to be without one in the future (unless you find a 576 or 577, of course!!)

Stan w7ni@teleport.com

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: Johnson_Dan@AAC.COM
Subject: The Flickering Candle of Quality
Message-ID: <9603070630.22763.aa@SMROUTER.AAC.COM>

This thread was inevitable, and, if you think about it, there is no way Jack could shut it down. He is a wise and restrained man.

I will be very sorry to see those leave who either cannot afford or justify or, on their principles, refuse to subscribe to the list in its paid status. I wish there were a way to keep you, because you have value as givers or takers. (Think about that - we're all preservationists here. Even those in it just for the money have a small positive role.)

It would seem that the list has grown to the point at which it could no longer survive _as it was_ and as a "free" list. Whether it could is a decision that no one but Phil (with Jack's help) could make: it is not our business. Something had to change. It has been suggested that the list move to another provider who could supply the same logical services for less money per subscriber.

There is a serious flaw in that logic, and it is related to one reason that our country has changed since the 60s, the end of the era which we celebrate with our collective interest. The only way to get logically equivalent service for less money is to take advantage of the _monetary_ economies of scale and automation. The flaw is that the economies are _only_ monetary.

As others have mentioned, there is no way that BA could move to an ISP and enjoy the same consistent level of quality service and direction that Phil and Jack, with the elves, provide. The price for paying less would be the loss of that. I am not willing to settle for less. That's why I celebrate and try to preserve boatanchors.

What we lost in the 60s or so was the design and manufacture of electronics of such extraordinary quality that they survive 50 years later. We have lost electronics which can be repaired by the sharp, neighborhood technician. (The manufacturers systematically eliminated these, BTW, knowing full well what they were doing.) We have lost the ability for a small business which emphasizes quality products and services to compete realistically and without compromise with multinational corporations which emphasize the bottom line.

If there is any action related to this list which is consistent with the philosophy of boatanchors, it is to do what is necessary to maintain its quality, bottom line be damned. If we must each contribute to prevent the bottom line from destroying the sanctity of the list, then that is what we must do.

Frankly, I do not believe that the subscription fees will cover actual operating costs over a year, nor is it conceivable that it would repay Phil for his investment to date, nor would it even begin to compensate for the time Phil and Jack put into this. They should find suggestions - or statements - to the contrary insulting. They have demonstrated their integrity and honor both in their responses and in withholding comment.

Thanks for reading this. It won't be long before we're back to concentrating exclusively on what we enjoy more.

73 de KC4EWT

Johnson_Dan@aac.com

AAC Associates, Inc. - Communication and Information Services

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996

From: John Shriver <jas@shiva.com>

Subject: the NOS tube marketplace

Message-ID: <199603071558.KAA01747@shiva-dev.shiva.com>

Actually, the NOS tube business is about the closest thing that there is to the true open marketplace, with full information, that the economists taught me about in college. Prices really and truly do reflect supply and demand.

There is a network of tube pickers through the country. They hunt for large buys of tubes at flea markets (all types), TV repair places that don't need them anymore, surplus sales, etc.

Then, there is this wholesale "market" that exists on a "network" of fax machines. The major retailers, like AES, periodically send out bid sheets of tubes they need, with a price. If one of the pickers has them (and can sell them at a profit), they hurry to respond.

The other part is, of course, good old DoD selling tubes through DRMS. These are sold by sealed bid in large lots. They publish ALL the bids after the sale, so folks can know where the market is going. The pickers don't generally bid at these, just the retailers: AES, Fair, Davilyn, etc.

Perhaps the only kink is that supply is very uneven. A tube can be rare for years, and then the DoD dumps 10,000 of them on the surplus market, or HP decides to stop keeping it as a spare part and sells them for scrap. Someone can bid high for a tube from DoD, and suddenly there are so many of them out there that he can't sell them for what he paid.

So, for instance, if you know that DoD is auctioning off a tube you know is rare (4D32), wait a few months until the auction is over. You will probably find it cheaper for the time being, due to the surge in supply. (This may be the first batch of 4D32's they sold in 5 years.) You will also know who got the tubes, who to call.

In general, the wholesale prices are half the retail prices. These retailers do hold a large inventory, tie up LARGE amounts of money on inventory, let buyers specify brand, eat defective or used tubes, and risk the price swings. The tubes that AES periodically puts on clearance sale show that even they make boo-boos. I don't begrudge them this markup. (Still, I try and buy locally from the pickers.)

The other distortion in the market is the Japanese audiophiles who will pay any price, no matter how dear, for certain tubes. Well, the guitar amp crowd will bid pretty high, too, but for different tubes. Still, that is just "demand."

The NOS tube market has matured and grown up a lot recently. Yes, 5 years ago it was generally some fixed percentage of the original list price. I know some local dealers who still work on that basis. Some tubes (the ones in demand) they can't keep in stock, others nobody will buy because the street price is far less than they want.

Tube prices do go down. I've kept an eye out for 8233/E55L for my Tek scopes for a long time. Latest price lists, they went DOWN. Either DoD sold a lot, or nobody is trying to keep the scopes and pulse generators they are used in working anymore.

There are tubes which are utterly unsaleable on the wholesale market. Mostly the TV tubes other than the sweep tubes. For instance, I bet it's hard to move 3CB6's. Some tubes go for as little as 5 cents, if you can find a buyer.

Yes, some of the tube retailers are absolute thieves. Davilyn is a fine example. They charge a fortune for everything, rare or common. However, their market isn't people like us, it's DoD contractors. Many DoD contracts specify particular tests to be done with particular peices of obsolete test equipment. Well, that equipment is often 20 to 30 years old, and uses some damn obscure tube. These contractors

are selling frobs to DoD for \$100,000 each, and they don't give a damn if they have to pay \$100 for some tube that really should be \$5. (Tucker is the other company that sucks up to these contractors, but only for complete instruments, they don't sell tubes.)

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: jproc@worldlinx.com
Subject: Tube Manufacturing
Message-ID: <Chameleon.4.01.2.960306221028.jproc@>

Dear BA'ers,

After working with tubes for all these years, it suddenly occurred to me that I know nothing about the tube manufacturing process. Was it mostly automated or was hand labour the predominant method? I can't seem to visualize a machine folding up a piece of coated tungsten wire into pleats and trying to slip it in a cathode sleeve. Can anyone describe the tube manufacturing process ^briefly^? What would be the typical hourly or daily production rate for a common garden variety tube like a 6CB6 or 12AU7?

Regards,

~~~~~  
Jerry Proc VE3FAB  
E-mail: jproc@worldlinx.com  
Radio Restoration Volunteer  
HMCS Haida, Toronto Ontario  
~~~~~

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: John Shriver <jas@shiva.com>
Subject: Re: Tube Manufacturing
Message-ID: <199603071614.LAA04720@shiva-dev.shiva.com>

There are entire books, and conference proceedings, on tube manufacture. Some have been mentioned here on the list.

Mager's book on WE tubes gives a good flavor on how they made their tubes. However, the incredible attention to detail was probably unique to them, since they had far higher labor cost to replace tubes.

It was a combination of precision machinery and hand labor. The machinery made the parts to very tight tolerances. The mica punching

is very demanding, a worn die will leave large holes, and microphonic tubes. Grids were wound on grid lathes, very precise. Most of the automation was in making the parts. The grid siderods are precision ground, done with a centerless grinder.

Assembly of the mount (guts) was done by hand, generally by nice ladies. (WE noted that the ladies could not be allowed to use hand cream, as it caused contamination.) The welds are all done by hand.

On the other hand, the assembly of the envelope, vacuum pumping and bakeout, were all very much done by automated machines.

The cleanliness required was extremely high for industry in those days. Of course, compared to what's required for semiconductor or hard disk fabrication, it's nothing.

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: dma@IslandNet.com (Jan Skirrow)
Subject: Re: Tube Manufacturing
Message-ID: <m0tuk50-000Fe2C@island.amtsgi.bc.ca>

>After working with tubes for all these years, it suddenly occurred to me
>that I know nothing about the tube manufacturing process. Was it mostly
>automated or was hand labour the predominant method?

>Jerry Proc VE3FAB

Hi Jerry ...

Someone else can probably give a more up to date answer. I just came across an article in an old "Boys Own Annual" (old books are a perfect match for old radios, don't ya know) about the Mullard tube assembly plant in England. I forget which Annual it was, but no later than early 1930s.

The photographs show a labour intensive process, but still heavily automated for the day. Fabrication of all the metal bits and pieces was pretty much automatic, and the tube assembly lines looked a lot like what you'd expect for a light bulb assembly line - which was a pretty well developed technology at that point. They had grid winding machines, but it wasn't clear whether or not these just produced the properly sized coils of wire, or also attached the side support wires, thus producing a finished grid. Assembly of the tube innards seemed to be largely manual, with a lot of jigs. One of the more interesting photos was of the "burn-in" rack where all tubes were run under operating conditions for some period prior to boxing and shipping. I wonder what the failure rate was?

Comparing some earlier tubes I have of the 00-01 variety, I'm struck by how

crude the assembly is, and how irregular the element spacing etc. By the early 1930s, much of this crudeness was gone, so I expect more automation was used, or else much better manual assembly methods had been developed. Either way, it's not surprising that tubes were so expensive.

I'd offer to make a copy of the article for you, but the book is very fragile and would be damaged. However, these things are available on microfiche, so if you like I can dig up the volume/page/title for you - or anyone else who wants it.

Regards

Jan Skirrow, VE7DJX
dma@islandnet.com

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: Michael.J.Knudsen@att.com
Subject: Re: Tubes are good
Message-ID: <9603072152.AA29051@bock.ih.att.com>

Hi Sandy -- I already mentioned Midwest as a major contender in the race with Zenith and Philco for pumping the tube count, but I personally don't know of any Midwest chassis with totally unwired tubes (I could be wrong).

The chassis I have (late '40s, buig RME-style dial with spread SW-BC bands) has about 16 tubes, and pulls a few of the usual stunts: Two 5Y3s for one 5U4; 4 6V6s in P-P parallel steda two 6L6s, and maybe that Philco/Zenith standby, the triode diode detector.

At least here in the Midwest (hi!), Midwest consoles have a devoted collector following, who like the big dual speakers, fancy dial (but impossible to read over the age of 40) and chrome-plated (now flaking off) switches.

BTW, I consider such tube-pushers as separate HFO and separate AVC detectors as quality items (not that Midwest used them).

How about discussing another annoying feature of some radios:
These use of an oddball tube where a common type would do?

Examples: 6SS7 steda 6SK7 in the HQ-129X. 6U7 steda 6K7 in Philco 37/38-116. And some of the oddball late-60s RF tubes in comm rcvrs.

73, mike k aa9rg

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996

From: USSAILIS@forum.phast.umass.edu
Subject: RE Tubes are good
Message-ID: <01I22EQPDRK200DONZ@rfd.oit.umass.edu>

The name of the radio co escapes me. They built AM sets with as many tubes as possible. Remember a audio output with push-pull 6L6s driving parallel, push-pull 6L6s.

I respectfully nominate N4HUR for honorary engineer there.

Jim, W1EQ0

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: Michael.J.Knudsen@att.com
Subject: Re: Tubes are good
Message-ID: <9603071947.AA28744@bock.ih.att.com>

A VR tube in an audio amp? Even Scott didn't go that far....
Zenith, Phjilco, and Midwest all were guilty at times of
inflating the tube count. Maybe someone could name a few comm. rcvrs
with a few more than necessary -- does the SP600's "gate tube" count?

If you REALLY want to use up bottles, get the boilerplate schematic
for an IC balanced mixer or op-amp, and put in a triode for every
transistor, including the constant-current sources in the cathodes.
Better start looking for those trashed mid-50s color-TV chassis now...
73, mike k aa9rg

From boatanchors@theporch.com Thu Mar 7 09:05:47 1996
From: Arthur Moe <kb7ww@aracnet.com>
Subject: Wanted
Message-ID: <199603070502.VAA17916@trapdoor.aracnet.com>

To all BAers

I am sitting here tonight looking at my 1955 edition of How to BECOME A
RADIO AMATEUR. (which has been with me since about 1957, given to me by my
ELMER). Really I'am looking at the "simple transmitter" the 6v6 on the wood
strips. Which I have been gathering parts for. This will be the second one
that I have built. Sure wish I knew where the first one got to. Anyway one
of the guys that I work with is into wood working and has made me the
chassis for both the xmtr and ps. Now down to the wants, I still need 50ft
of "Bell" wire and a BUD MC1876 variable cap.

Can anyone help?????

73s

art

AT THE END OF THE OREGON TRAIL

Arthur Moe
A.R.S. KB7WW
QTH: Oregon City, Or.

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: Herb_Holeman@admin.state.ak.us
Subject: wanted...bell wire for 6V6 transmitter
Message-ID: <E92B3F3181D11473@-SMF->

To: Arthur Moe, KB7WW
cc: Boatanchors

18 guage bell wire can often be found at electrical supply or heating supply stores. Just ask for wire to hook up your low-voltage (24 VAC) thermostat. The wire you probably want is solid copper with a cotton (or similar), waxed, insulation wrapped around the wire. Even if you can't find any cotton wrapped wire, they will doubtless have some of the correct size wrapped with "high-tech" insulation. Keep us posted on your project.

73,
Herb Holeman, WL7BIL
choleman@ptialaska.net

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: owens@stout.atd.ucar.edu (Chip Owens)
Subject: WANTED: BC-610 audio driver transformer
Message-ID: <199603072335.QAA00755@atd.atd.ucar.EDU>

Hello,

The title pretty much says it. I'm looking for the audio driver transformer for the modulator (push-pull 100TH's) from the BC-610 transmitter. If you have one to sell, please let me know. Thanks!

Chip Owens, NW00

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996

From: Richard E Robinson <rerobins@uncc.edu>
Subject: Re: What's the Best Tube Tester?
Message-ID: <Pine.SOL.3.91.960307144708.10202B-100000@unccsun>

On Tue, 5 Mar 1996 cfb@novum.com wrote:

> I've decided it's time to buy a good tube tester.

Charles,

I'll have to say the Weston 978 has to be in the top five. Mine is a real piece of work, all metal case, beautiful Weston meter which displays the transconductance. Not exactly made to carry around, as it's a real boatanchor of a tester. This one was made for the CAA according to the government tag on the cover.

I'd also have to recommend a Hickok 600 series tester. These are good emission type testers and can also test transconductance but not as easily as the Weston. Mine is in a beautiful old burgundy leatherette carrying case. It would have made a good impression on a TV service call back in the '50s.

73,

Rick kf4ar
rerobins@uncc.edu

From boatanchors@theporch.com Thu Mar 7 23:56:48 1996
From: hurban19@baste.magibox.net
Subject: WTB
Message-ID: <199603080350.VAA05792@baste.magibox.net>

I need the front panel name tag for a R390A made by EAC. Also original cabinet for R390A.

E-mail to hurban19@magibox.net
or snail mail to
Mel Urban
7190 Mimosa
Germantown, TN 38138

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996

From: WJoew@aol.com
Subject: WTB KWM-2A VFO module
Message-ID: <960307132325_239976824@emout06.mail.aol.com>

I need a new or used PTO unit (the whole shield can + inside goodies+ for a KWM-2A. If you could spare one, please holler.

Joe

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: Chuck Penson <penon@sci.mus.mn.us>
Subject: WTB: QSTs on microfiche
Message-ID: <313F1BCC.5C28@sci.mus.mn.us>

I'd like to get a set of QSTs on microfiche. Doesn't have to be complete. 1950 to 1980 or thereabouts would be OK. I know there is a company that sells these, but they want \$450 for a complete set. I guess I'll pay it if I have to, but thought I'd try here first.

Thanks

--
Chuck Penson
Education Division
Science Museum of Minnesota

penon@sci.mus.mn.us
612.221.4510 voice
612.224.5092 fax
<http://comped.sci.mus.mn.us>

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Faraday

From boatanchors@theporch.com Thu Mar 7 17:52:31 1996
From: Randy.Cook@Corp.Sun.COM (Randy Cook)
Subject: WTB:Drake SPR-4
Message-ID: <9603072257.AA14577@mmmkt.Corp.Sun.COM>

If you know of a unit for sale, please let me know. I need a working one, as I have a couple of audio tube fix-it projects that will come first. (not to mention lawn, house, car....)

So what is the BA angle? I have an Drake SW4A hollow state radio that I can trade/deal with.

73

Randy Cook